WBLE-SL ► UECM3463-202206-EZZ ► Quizzes ► 202206UECM34630E2b ► Review of preview					
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Completed on Time taken	Thursday, 4 August 2022, 08:01 AM 6 secs				
	<b>0</b> out of a maximum of 10 ( <b>0</b> %)				
<b>1</b> 👺 Marks: 1	For a zero-modified ETNB distributio	on, you are given: (i) $p_1 = 0.703907$ , (ii) $p_2 = 0.042825$ and $p_3 = 0.006431$ . Determine the probability of 0			
	Answer:				
	Make comment or override grade				
	Incorrect Correct answer: 0.245216				
	Marks for this submission	n: U/1.			
<b>2</b> 🗑 Marks: 1	Suppose S is a compound frequency and secondary distributions $N_1$ and $I$ $N_1$ and $N_2$ are Poisson with paramete $\lambda_1=7.3$ and $\lambda_2=2.5$ , respectively. Find $1000P(S=2)$ .	$N_2$ , respectively. ters			
	Answer:				
	Make comment or override grade				
	Incorrect Correct answer: 3.683269				
	Marks for this submission	n: 0/1.			
<b>3 ☑</b> Marks: 1		function (pgf) of the primary distribution is			
	$P(z) = e^{5.2(z-1)}$				
	and the pgf of the secondary distribu	oution is			
	$P(z) = [1 - \beta(z-1)]^{-1},$				
	and the probability of no claims equa	uals 0.75. Calculate 1000β			
	Answer:				
	Make comment or override grade Incorrect Correct answer: 58.563407				

	Marks for this submission	0/1.	
<b>4</b> ☑ Marks: 1	<ul> <li>Let losses occur following a frequency distribution with</li> <li>P(N = 1) = 0.75 and</li> <li>P(N = 2) = 0.25.</li> </ul> Suppose a deductible is imposed such that the probability of a payment resulting from a loss is now 0.74 rather than 1. Determine the probability that the number of payments made is one times 1000. [i.e. 1000P(N <sup>P</sup> = 1)]		
	Answer:		
	Make comment or override grade Incorrect Correct answer: 651.2 Marks for this submission	0/1.	
5 🗑 Marks: 1	The number of losses follows a Binom N	al distribution with m = 34 and q = 0.38. Loss sizes follow and inverse exponentila distribution with $\theta$ = 120. Let N be ti	ne number of losses for amount less than 240. Determine the standard deviation of
	Answer:		
	Make comment or override grade Incorrect Correct answer: 2.455654 Marks for this submission:	0/1.	
<b>6</b> 🖢 Marks: 1	Let losses occur following a zero modi variance of the number of payments r	fied binomial distribution with $q = 0.75$ , $m = 3$ and $p_0^M = 0.70$ . Suppose a deductible is imposed such that the probability hade	y of a payment resulting from a loss is now 0.88 rather than 1. Determine the
	Answer:		
	Make comment or override grade		
	Incorrect Correct answer: 1.035888 Marks for this submission:	0/1.	
<b>7</b> 🗑 Marks: 1	Loss size has an exponential distributi The group expands to 75 individuals a	nial distribution with mean 8 and variance 16. on with mean 370.	
	Answer:		
	Make comment or override grade		
	Incorrect Correct answer: 999.999175 Marks for this submission	0/1.	
8 🗹 Marks: 1	For an insurance coverage, you are gi     Claim frequency (N), before any	ven: olication of deductibles, follows a distribution with probability generating function(pgf)	
		$P_N(z) = 0.35 + 0.65[1 + 0.14(z-1)]^8/(1 - 0.86^8)$	
	<ul> <li>Claim size (X), before application</li> </ul>	in of deductibles, follows a distribution with pgf $P_X(z) = [1-8(z-1)]^{0.3}-9^{0.3}]/[1-9^{0.3}]$	

Claim frequency and claim size are independent.
There is a deductible of 3 per loss.

	Calculate the variance of the number of payments		
	Answer:		
	Make comment or override grade		
	Incorrect Correct answer: 0.194288 Marks for this submission: 0/1.		
9 🗹 Marks: 2	Click the following link to answer the questions:  https://docs.google.com/forms/d/e/1FAIpQLSfRUvV1wYI20DIcNLV8ceGzZ3KhxUlOBODMYAuqigllzVCYPA/viewform?usp=sf_link  Then answer 1 here after submitting the form. [Note: In order to enter the google form, you must make sure that you login to UTAR account. If you see "You need permission", this means that your are not login to UTAR account, switch to UTAR account]		
	Answer:		
	Make comment or override grade		
	Incorrect Correct answer: 1 Marks for this submission: 0/2.		

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